

We claim:

1. A hydraulic circuit for a crane comprising:

a first actuator group including actuator circuits driven by a first hydraulic source, said actuator circuits including a boom hoisting motor circuit as a driving circuit for a winch motor for boom hoisting and a wind-up motor circuit as a driving circuit for a winch motor for wind-up, said boom hoisting motor circuit and said wind-up motor circuit being connected in series through a control valve for boom hoisting and a control valve for wind-up;

a second actuator group including actuator circuits driven by a second hydraulic source; and

a switching valve provided between said control valve for boom hoisting and said control valve for wind-up in said first actuator group and switched between a first position and a second position, both said boom hoisting motor circuit and said wind-up motor circuit being connected to said first hydraulic source at the first position of said switching valve, both the circuits being cut off at the second position, the actuator circuit at downstream out of both the circuits being connected to said second hydraulic source.

2. The hydraulic circuit for a crane according to claim 1 wherein the actuator circuits in said second actuator group are connected in series through the respective control valves.

3. The hydraulic circuit for a crane according to claim 1 wherein said wind-up motor circuit has a main motor circuit as a driving circuit for a winch motor for main and an auxiliary motor circuit as a driving circuit for a winch motor for auxiliary hoisting.

4. The hydraulic circuit for a crane according to claim 3 wherein one out of said main motor circuit and said auxiliary motor circuit is arranged in said first actuator group, and the other is arranged in said second actuator group.

5. The hydraulic circuit for a crane according to claim 1, further comprising:

simultaneous operation detector for detecting simultaneous operation of said boom hoisting motor circuit and said wind-up motor circuit, said switching valve being switched to the second position on the basis of a signal from said simultaneous operation detector.

6. The hydraulic circuit for a crane according to claim 1 wherein said switching valve comprises a hydraulic pilot valve, said hydraulic pilot valve being switched by an electromagnetic operating valve provided in a pilot circuit of said hydraulic pilot valve.

7. A hydraulic circuit for a crane, comprising a first actuator group driven by a first hydraulic source and a second actuator group driven by a second hydraulic source, wherein actuator circuits within said both actuator groups are connected in series through respective control valves, and a boom hoisting motor circuit as a driving circuit for a winch motor for jib hoisting for hoisting a jib and a hoisting motor circuit as a driving circuit for a wind-up winch motor for hoisting a hanging article belong to said first actuator group, characterized in that a switching valve switched between a first position and a second position is provided between a control valve for boom hoisting and a control valve for wind-up in said first actuator group, both said motor circuits are cut off at the second position, and the motor circuit at downstream out of the circuits is connected to the second hydraulic source.